

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS:**

1-4. (Canceled).

5. (Currently Amended) A radar sensor utilizing the pulse-echo principle, comprising:  
a first receiving antenna ~~having a broad short range antenna characteristic;~~  
a second receiving antenna having a narrower and longer range than that of the first  
receiving narrow long range antenna characteristic; and  
a switch coupled to the first and second receiving antennas, wherein the switch  
alternatingly switches through ~~transmits~~ a received signal of the first receiving antenna  
~~antennas~~ and a received signal of the second receiving antenna ~~by switching between the first~~  
~~and second receiving antennas~~ at a pulse repetition frequency of radar pulses transmitted by a  
transmitting antenna.

6. (Currently Amended) The radar sensor as recited in Claim 5, wherein the switching  
takes place only within a scanning distance range corresponding to the shorter range of the  
first receiving ~~short range~~ antenna ~~characteristic~~.

7. (Currently Amended) A radar system, comprising:

at least two radar sensors, each radar sensor including:

a first receiving antenna having a range ~~broad short range antenna~~  
~~characteristic~~;

a second receiving antenna having a narrow ~~long range~~ long range  
compared to the range of the first receiving antenna characteristic, the range of  
the first receiving antenna being a broad short range compared to the range of  
the second receiving antenna; and

a switch coupled to the first and second receiving antennas, wherein  
the switch alternately switches through ~~transmits~~ a received signal of the  
first receiving antenna ~~antennas~~ and a received signal of the second receiving  
antenna ~~by switching between the first and second receiving antennas~~ at a  
pulse repetition frequency of radar pulses transmitted by a transmitting  
antenna;

wherein a mono-pulse target angle determination is achieved using one of the radar  
sensors in the short range of the first receiving antenna of the one of the radar sensors by  
superimposing the short range of the first receiving antenna of the one of the radar sensors  
and the long range of the second receiving ~~short range and long range~~ antenna ~~characteristics~~  
of the one of the radar sensors ~~sensor according to the mono-pulse method~~, and wherein a  
target angle determination is achieved in a range longer than the short ~~[[long]]~~ range of the  
first receiving antenna of the one of the radar sensors by triangulation using the at least two  
radar sensors.

8. (Currently Amended) A radar system, comprising:

at least two radar sensors, each radar sensor including:

a first receiving antenna having a range ~~broad short range antenna~~  
~~characteristic~~;

a second receiving antenna having a narrow ~~long range~~ long range  
compared to the range of the first receiving antenna characteristic, the range of  
the first receiving antenna being a broad short range compared to the range of  
the second receiving antenna; and

a switch coupled to the first and second receiving antennas, wherein  
the switch alternately switches through ~~transmits~~ a received signal of the  
first receiving antenna ~~antennas~~ and a received signal of the second receiving  
antenna ~~by switching between the first and second receiving antennas~~ at a  
pulse repetition frequency of radar pulses transmitted by a transmitting  
antenna, and wherein the switching takes place only within a scanning  
distance range corresponding to the short range of the first receiving ~~short-~~  
~~range antenna characteristic~~;

wherein a mono-pulse target angle determination is achieved using one of the radar  
sensors in the short range of the first receiving antenna of the one of the radar sensors by  
superimposing the short range of the first receiving antenna of the one of the radar sensors  
and the long range of the second receiving ~~short range and long range antenna characteristics~~  
of the one of the radar sensors ~~sensor according to the mono-pulse method~~, and wherein a  
target angle determination is achieved in a range longer than the short ~~[[long]]~~ range of the  
first receiving antenna of the one of the radar sensors by triangulation using the at least two  
radar sensors.

9. (Currently Amended) The radar system as recited in Claim 7, wherein a calibration  
of the at least two radar sensors is achieved by obtaining redundant information in  
overlapping coverage areas of ~~[[where]]~~ the first antenna of a first sensor, the second antenna  
of the first sensor, the first antenna of a second sensor, and the second antenna of the second  
sensor ~~overlap~~.

10. (Currently Amended) The radar system as recited in Claim 8, wherein a calibration of the at least two radar sensors is achieved by obtaining redundant information in overlapping coverage areas of [[where]] the first antenna of a first sensor, the second antenna of the first sensor, the first antenna of a second sensor, and the second antenna of the second sensor ~~overlap~~.